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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/027,906	12/21/2001	Xiangxin Bi	2950.54US01	9919		
24113	7590 12/31/2003		EXAMINER			
PATTERSON, THUENTE, SKAAR & CHRISTENSEN, P.A. 4800 IDS CENTER			HELLNER, MARK			
	STH STREET	ART UNIT	PAPER NUMBER			
MINNEAPOLIS, MN 55402-2100			3663			
			DATE MAILED: 12/31/2003	3		

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Α	pplication No.		Applicant(s)	
	,	1	0/027,906		BI ET AL.	
٠,	Office Action Summary		kaminer		Art Unit	
		М	ark Hellner		3663	
Per	The MAILING DATE of this com iod for Reply	munication appear	s on the cover	sheet with the co	orrespondenc ad	idress -
	A SHORTENED STATUTORY PERIOD THE MAILING DATE OF THIS COMM - Extensions of time may be available under the provafter SIX (6) MONTHS from the mailing date of this If the period for reply specified above is less than the If NO period for reply is specified above, the maxim Failure to reply within the set or extended period for Any reply received by the Office later than three more armed patent term adjustment. See 37 CFR 1.704 tus	IUNICATION. isions of 37 CFR 1.136(a) communication. iirty (30) days, a reply with um statutory period will apr reply will, by statute, cau on the after the mailing date.	. In no event, howev in the statutory minin ply and will expire S se the application to	er, may a reply be time num of thirty (30) days IX (6) MONTHS from t become ABANDONED	ely filed will be considered time the mailing date of this o (35 U.S.C. § 133).	ly. ommunication.
	1) Responsive to communication	(s) filed on				
2	a) ☐ This action is FINAL .	2b)⊠ This a	ction is non-fin	al.		
	3) Since this application is in conclosed in accordance with the position of Claims					ne merits is
	4) Claim(s) <u>1-25,126-133,136,137</u>	<i>and 142-145</i> is/a	re pending in th	ne application.		
	4a) Of the above claim(s)	is/are withdrawn t	from considera	tion.		
	5) Claim(s) is/are allowed.					
	6) Claim(s) <u>1-25,126-133,136,137</u>	<i>and 142-<u>145</u> is/ar</i>	e rejected.			
	7) Claim(s) is/are objected	to.				
	8) Claim(s) are subject to re	estriction and/or el	ection requiren	nent.		1
App	olication Papers					
	9) \square The specification is objected to be	y the Examiner.				
1	0) The drawing(s) filed on is	′are: a)⊡ accepted	or b) objecte	d to by the Exan	niner.	
	Applicant may not request that an					
1	1) The proposed drawing correction	filed on is:	a) ☐ approved	d b)⊡ disappro	ved by the Examir	ner.
	If approved, corrected drawings a	re required in reply t	o this Office acti	on.		
1	2) The oath or declaration is object	ed to by the Exam	iner.			
Pric	ority under 35 U.S.C. §§ 119 and 120	1				
1	3) Acknowledgment is made of a c	claim for foreign pr	iority under 35	U.S.C. § 119(a))-(d) or (f).	
Ĭ	a) ☐ All b) ☐ Some * c) ☐ None	of:				
1	1. Certified copies of the pri	ority documents h	ave been recei	ved.		
	2. Certified copies of the pri	ority documents ha	ave been recei	ved in Application	on No	
REST AVAII ARI E	Copies of the certified copies application from the lift see the attached detailed Office. * See the attached detailed Office.	nternational Burea	u (PCT Rule 1	7.2(a)).		Stage
	4) Acknowledgment is made of a cla					l application)
	a) ☐ The translation of the foreig 5)☐ Acknowledgment is made of a cl	n language provis	ional applicatio	n has been rec	eived.	··· vb.b
.	chment(s)	ω τοι ασιποσαο μ	andor oc	. 5.5.5. 33 120		
	Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Revi Information Disclosure Statement(s) (PTO-14		5) 🔲		(PTO-413) Paper No Patent Application (P	

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1, 23, 126 and 142 are rejected under 35 U.S.C. 102(e) as being anticipated by Yoshimura et al.

Yoshimura et al disclose a three dimensional optical circuit that comprises: a plurality of layers(figures 1-5); a first optical device (figure 1, elements 3, 4 and 5); a second optical device (elements 16 and 17); and an optical turning device (elements 9, 8 and 11) for coupling light from the first device to the second device via control of the index of refraction of the turning device. This structure reads on claims 1, 23, 126 and 142.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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[™] Art Unit: 3663

Claims 2-22, 24, 25, 127-129, 136, 137 and 143-145 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yoshimura et al.

The subject matter of the claims under rejection recites elements that would have been known to a skilled artisan to have been part of an optical IC and, as such, would have been obvious.

Claims 130 1-33 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yoshimura et al in view of Yoshikawa et al .

Yoshikawa et al is cited to show that it was known at the time of the present application to arrange a plurality of VCSELs in an IC configuration (figure 18). It would have been obvious to have combined this teaching with Yoshimura et al because their device was designed to optically address a plurality of optical elements integrated into an IC.

Any inquiry concerning this communication should be directed to Mark Hellner at telephone number 703 306 4155.

Mark Heliner

December 15, 2003

MARKHELLNER PRIMARY EXAMINER

Mark Hellun